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SPR

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/170,336	10/13/98	BEETESON	J UK9-98-026
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WM51/1102

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EXAMINER

NGUYEN, K

ART UNIT

PAPER NUMBER

2674

7

DATE MAILED:

11/02/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

SPR
1 File Copy

Office Action Summary

Application No.

09/170,336

Applicant(s)

BEETESON ET AL.

Examiner

Kevin M. Nguyen

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- 1) ☒ Responsive to communication(s) filed on 07 September 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some * c) ☐ None of the CERTIFIED copies of the priority documents have been:
1. ☐ received.
2. ☐ received in Application No. (Series Code / Serial Number) _____.
3. ☐ received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 18) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other:

DETAILED ACTION

1. The amendment filed on 9/7/2000 is entered. Claims 1-11 have been rejected in view of the newly discovered prior art of Nakamura et al. (5,818,403) below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakamura et al. (U.S. Patent No. 5,818,403).
4. As to claim 1, Nakamura et al. teaches a matrix addressed display device (col. 7, lines 10-13) which includes a cathode means (col. 7, line 30). Figure 3 shows grid electrode means lines X1, X2, ... having a plurality of electron-emitting and modulation electrodes Y1, Y2, ... are arranged to form an XY matrix (col. 5, lines 25-29). . And Figure 1 shows a driving method of the device of Fig.3 at n=1. In Fig. 1, the information signals are inputted to odd-numbered rows of modulation electrodes and even-numbered rows of modulation electrodes and even-numbered ones divisionally two times, and cut-off signals are inputted to the modulation electrodes to which no information signal is inputted (col. 5, lines 58-63).

5. As to claim 2, Nakamura et al. teaches inherently information signal ($N=1, 2, 3, \dots$) before inputs to signal switching circuit 82 providing gain correction information to a one of a first or a second plurality of parallel conductors as claimed.
6. As to claims 3-5 and 9-11, Nakamura et al. teaches a memory 80 (col. 9, lines 28-31) for storing a plurality of values for a cut-off and gain correction information as claimed.
7. As to claim 6, Nakamura et al. teaches in the case where a plurality of hot cathodes are employed, uniform electron emission characteristics in a large area are not obtainable since electron emission characteristics of the hot cathode are affected by temperature distribution (col. 7, lines 27-31).
8. As to claims 7 and 8, Nakamura et al. teaches inherently anode means In FIG. 5, three electron beams are emitted from the electron-emitting regions 50a, 50b, 50c for one scanning line, and the electron beams are modulated by the modulation electrodes 51a, 51b, 51c. In the case where a positive voltage (ON voltage) is applied to the modulation electrodes 51b and 51c and a negative voltage (cut-off voltage) to the modulation electrode 51a respectively, the electron beams 54 from the electron-emitting regions 50b, 50c pass through the electron passage openings 53, and thereafter the trajectories of the respective electron beams 54 are deflected by the forces "f" exerted by the adjacent modulation electrodes 51b, 51c, as shown in FIG. 5, and the spots formed on the luminescent members 52b, 52c are asymmetric (col. 2, lines 11-23).
9. Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Nguyen whose telephone number is 703-305-6209. The examiner can normally be reached on Monday through Thursday 8 am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 703-305-4709. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-6606 for regular communications and 703-308-6606 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Kevin M. Nguyen
October 24, 2000



**RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600**